BLUEROLL

The Bonfiglioli platform for
mobile robots and logistic systems

Bonfiglioli

We engineer dreams

BLUEROLL

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BLUEROLL

THE HIGHEST LEVEL OF PRECISION, EFFICIENCY AND ENERGY OPTIMIZATION

With more than 20 years of experience in creating tailored and forward-thinking motion control systems, Bonfiglioli has proven being a reliable partner as **one-stop shop for mechatronic applications** in industrial automation.
Bonfiglioli engineering specialists work side by side with customers to develop dedicated integrated solutions, covering the entire motion drive train according to an **Industry 4.0 approach**.
Thanks to the extensive know-how and the long-term collaboration with key customers, our two centers of excellence, located in Italy and Germany, develop **breakthrough mechatronic innovations**, including low backlash planetary gearboxes, servomotors, open and closed loop inverters, servo drives and energy regenerative units.

This, combined with a comprehensive range of **Professional Services**, enables us to respond to customers' requests by:

- providing **user friendly, plug & play solutions**
- **increasing** applications' **efficiency** and **productivity**
- designing **flexible, modular solutions** targeted to a wide range of applications
- granting access to real time data for **diagnostic, maintenance** and **predictive analytics**

ASSESSMENT & RECOMMENDATION

ENGINEERING & PLANNING

INSTALLATION & COMMISSIONING

RETROFIT & UPGRADE

MAINTENANCE & REPAIR

FULLY COMMITTED TO THE SUCCESS OF OUR CUSTOMERS' SYSTEM OVER ITS LIFE CYCLE

Bonfiglioli technical sales experts support customers with a proactive, flexible and dedicated approach **throughout the system's entire life cycle**.

- **Assessment and recommendation**: our team provides support starting from the very early stage of the project by assessing the requirements and developing a targeted analysis of the application, guiding customers in the choice of the most suitable components for their drive solution.
- **Engineering and planning**: our experts work with customers to co-engineer their application, offering consultancy in sizing, fine tuning and selecting the optimized drive train, always considering life cycle cost optimization.
- **Installation and commissioning**: we partner with our customers to ensure a quick, cost-effective and successful installation, optimizing the benefits and functions of their drive technology.
- **Retrofit and upgrade**: we update customers' machines with state-of-the-art technology to ensure constant levels of productivity, reliability and performance.
- **Maintenance and repair**: we work side by side with customers to avoid failures, reduce down times and ensure the best system operation.

THE BLUEROLL PLATFORM

MODULAR AGVS AND AMRS SOLUTIONS TAILORED TO YOUR NEEDS

BlueRoll is the Bonfiglioli platform specifically developed to respond to the demanding requirements of the AGVs and AMRs sector in terms of power density, position accuracy and high load capacity. With its **flexibility** and **full customization**, it offers a **modular solution**, that reduces complexity while ensuring **maximum power density** and **energy efficiency**.

FULL CUSTOMIZATION FOR RELIABLE PERFORMANCE AND HIGH POWER DENSITY

EXPERTISE FOR CUSTOMIZED SOLUTIONS

Active partnerships and **co-engineering** to satisfy a **wide range of individual requirements**, from design constraints to type of duty cycles

COMPLEXITY REDUCTION

The **freely configurable modular solution** is available in various combinations and sizes to match both **design and performance requirements**

SECTOR SPECIFIC REQUIREMENTS

The solution can be designed to **meet specific industry sector requirements** such as high / low ambient temperature, surface protection, higher IP protection, compliance with specific regulations

THE HIGHLY FLEXIBLE AND MODULAR PLATFORM FOR A WIDE SPECTRUM OF APPLICATIONS

WAREHOUSE & LOGISTICS

MATERIAL HANDLING

PHARMACEUTICAL

FOOD & BEVERAGE

E-COMMERCE

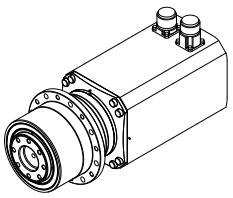
A DEDICATED SOLUTION FOR DIFFERENTS VEHICLES DESIGN

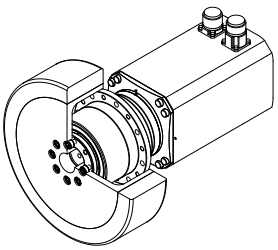
In order to satisfy the requirements of a wide range of different vehicle concepts and designs, Bonfiglioli offers a **modular approach** for AGVs and AMRs, allowing the selection of the **best configuration** to effectively suit the specific application's needs.

Based on the design of your vehicle, we can provide the **single component** (servomotor or precision planetary gearbox, with and without the wheel) **or the integrated geared motor solution**, together with a wide range of **sector-specific components and options**, tuned to the requirements of mobile robots and logistic systems.

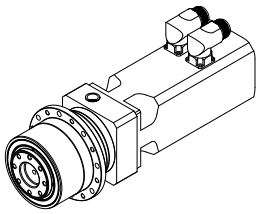
CUSTOMIZED LEVELS OF INTEGRATION

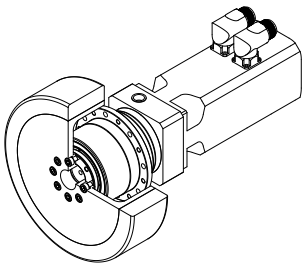
BLUEROLL COMPACT
Extra compact
Servo geared motors



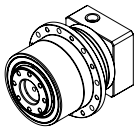


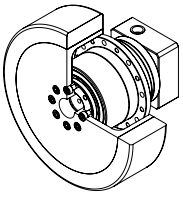
BLUEROLL ADVANCED
Servo geared motors





BLUEROLL BASIC
Precision Planetary Gearboxes





Each version of BlueRoll is available both with and without the wheel.

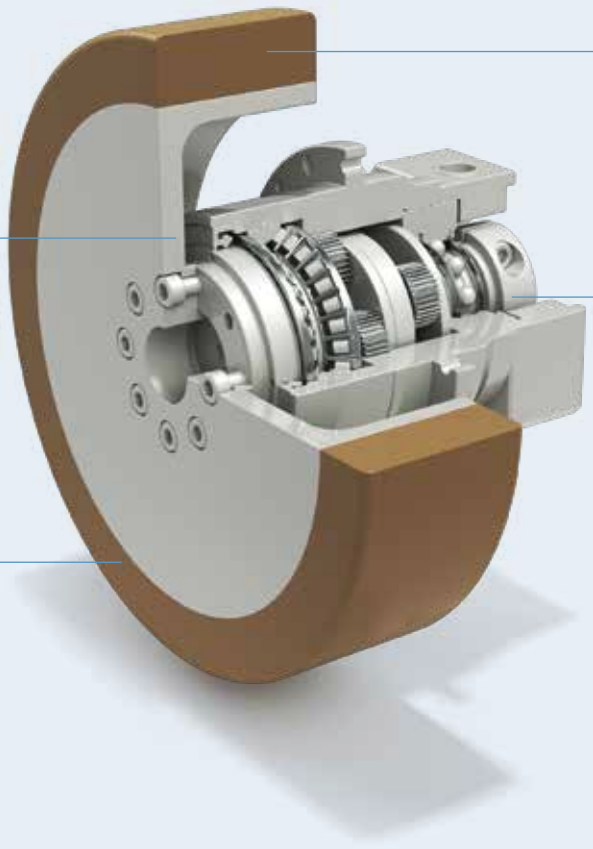
BLUEROLL BASIC

TQW: PRECISION PLANETARY GEARBOXES FOR AMRS AND AGVS

BlueRoll Basic, based on our TQW planetary gearbox, represents the ideal solution for your drive wheels.. Thanks to its **heavy load capability, exceptional compactness, efficiency** and **durability**, it fulfills application-specific requirements in an optimum way.

Easy installation
Thanks to its fixing flange design, the gearbox can be fitted directly to the chassis of the vehicle

High energy efficiency
Compared to other technologies, planetary gearboxes allow to reduce energy consumption at any load condition, hence extending battery life.

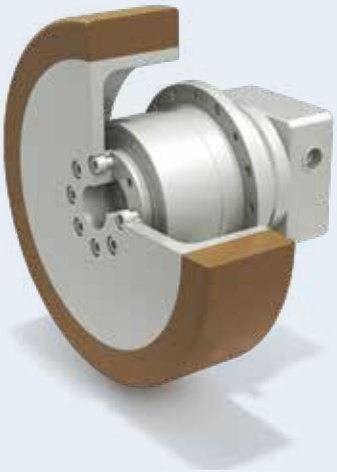


Heavy loads capability
The integrated wheel is supported directly by the reinforced gearbox bearings, which permit ultra-high radial forces

Minimized installation space
Since the gearbox is almost completely enclosed by the wheel, the required installation space is reduced to the minimum

THE TQW PRECISION PLANETARY GEARBOX SERIES

TQW is available in **three sizes**, each supporting a maximum load (per wheel) of 360, 720, 1020kg. and coupled with a specific industrial wheel, with a diameter of 160 mm, 200 mm or 250 mm. **Maximum speeds** up to 2 m/s (7.2 km/h) are possible.



GEAR RATIOS
- 9 ... 100

DEGREE OF PROTECTION
- IP65

BACKLASH
- Less than 10 arcmin

MAX RADIAL FORCE
- 2300 ... 5200 N

MAXIMUM INPUT SPEED
- 4000 ... 6000 rpm

MAXIMUM LOAD CAPACITY
- 360 ... 1020 kg

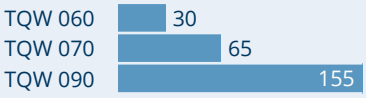
MAXIMUM SPEED
- <2m/s

POSITION PRECISION
- 0.2 ... 0.3 mm

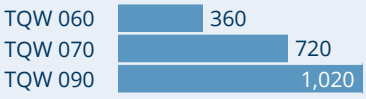
WEIGHT (WHEEL INCLUDED)
- 4,2 ... 18,1 kg

KEY FEATURES
- Extremely compact
- High energy efficiency
- Output shaft supported by heavy load capacity bearings
- Highly reliable
- Life lubricated
- Designed for continuous and intermittence duty

NOMINAL TORQUE (Nm)



MAX LOAD CAPACITY (kg)



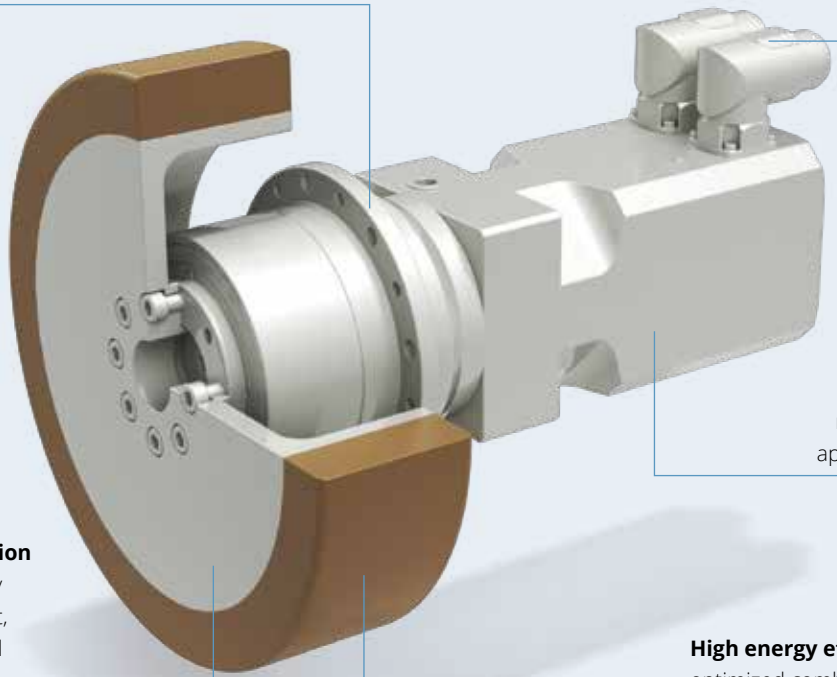
BLUEROLL ADVANCED

A POWERFUL AND MODULAR SOLUTION TO DRIVE ANY AGVS AND AMRS DESIGN

Thanks to the effective combination of our **Permanent Magnet Servomotors**, characterized by high torque density and compact design, and our **Precision Planetary Gearboxes** designed for high loads support, BlueRoll Advanced offers the **ideal performance for AGV applications**, ensuring great levels of flexibility, safety and space-saving.

Embeds all the benefits of TQW gearbox from BlueRoll Basic

Tailored for your mobile robot thanks to a wide range of sector-specific features, i.e.: low voltage supply, special feedbacks including safety encoders, holding brakes



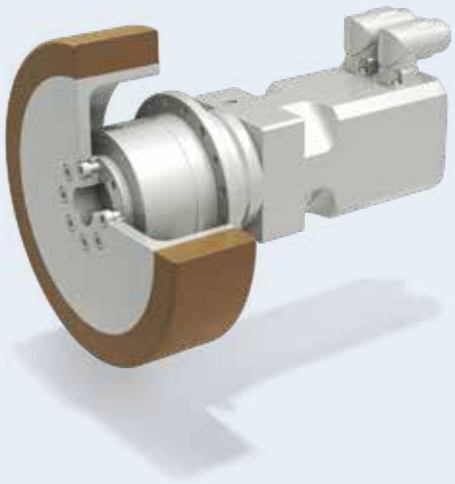
The **modular design** allows you to freely combine gearbox and motor to fullfil different application requirements

Extensive customization possibilities to meet any application requirement, including environmental constraints (e.g. low temperature)

High energy efficiency thanks to the optimized combination of servo motor and gearbox

PERMANENT MAGNET SERVO GEARMOTORS

The BlueRoll Advanced servomotors are permanent magnet synchronous gearmotors with **highly compact dimensions** and **low inertia**. They meet the most stringent demands for precision, dynamics and speed settings thanks to their high-quality neodymium iron boron rare-earth magnets and optimized mechatronic integration. The solution allows great freedom in the **product customization**, thanks to the **wide range of options**, for an **optimized and flexible servo package**.



POWER SUPPLY
- Customized winding for low voltage supply (i.e. 48Vdc)

RATED SPEED
- 1600, 3000, 4500, 6000 rpm

SIZES
- 3 gearbox sizes
- 4 motor frames

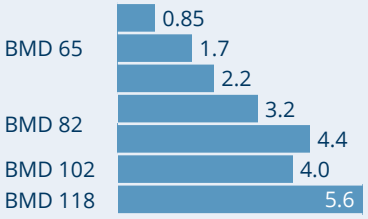
BACKLASH
- Less than 10 arcmin

BRAKE
- Holding brake
- Safety brake

DEGREE OF PROTECTION
- IP 65, IP 67 possible

KEY FEATURES
- Highly customizable solution
- Specific matching between the individual application demands and the gearmotor's operating area
- Wide range of encoders and protocols suitable for functional safety
- Various connectors options or flying cable

BMD SERIES MOTOR TORQUE (Nm)



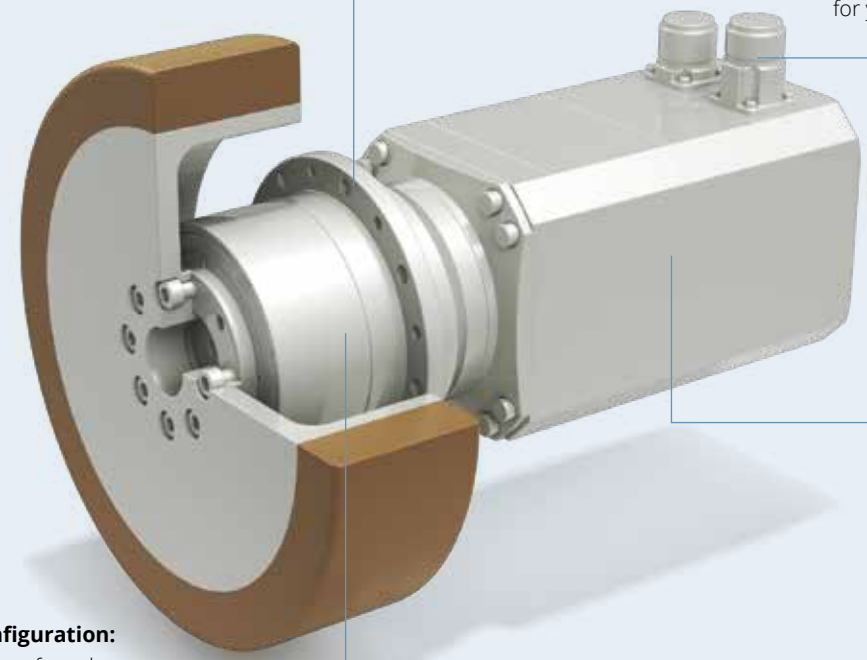
BLUEROLL COMPACT: THE TOP-LEVEL INTEGRATION

EXTRA COMPACT SERVO GEARMOTORS

Reach the **highest level of customization and compactness** with our **complete solution**, characterized by **fully tested** and **validated dimensioning** tailored to your specific requirements. Developed to respond to customer's requests, the extreme compactness of this solution allows **greater flexibility in the design** of your AMR application.

Embeds all the benefits of TQW gearbox from BlueRoll Basic

Make the battery last longer: the combination of low voltage PMSM and a planetary gearbox in a compact design, makes BlueRoll the right choice for your battery-powered system.



Simplify your AGV design: the Compact version is **25% shorter** than the Advanced version, maximizing space-saving and preserving high-level performance.

Choose the best configuration: thanks to its wide range of gearbox ratios, feedback systems (including safety encoders), and motor options, BlueRoll is the most versatile platform on the market.

OTHER BONFIGLIOLI SOLUTIONS FOR AGVs

Thanks to over 40 years of experience in the sector, Bonfiglioli is the right partner to support you in **developing and designing** electric powertrain and drive **solutions for warehouse vehicles**.

Our EL Series is able to respond to the most demanding requirements of warehousing applications, ensuring **great loads capability, extreme compactness** and **high maneuverability**.

EL SERIES

Bonfiglioli EL powertrains are a perfect match for the most demanding warehousing applications (Class 2 and Class 3). Warehousing trucks require high maneuverability in tight spaces, provided by drives like the EL series drives, with the smallest operating radius in vertical arrangements.

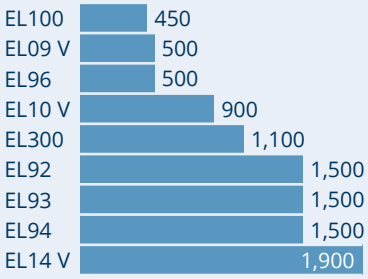
GEAR RATIOS
- 13 ... 32

POWER RANGE
- 2 ... 7 kW

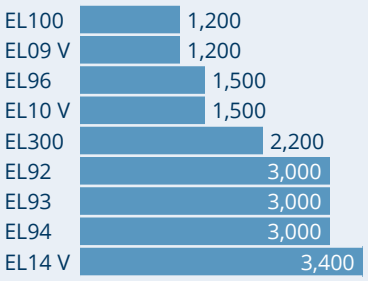
MAIN OPTIONS
- Cold environment versions
- Integrated tiller or castor wheel supports

KEY FEATURES
- Two-stage helical & bevel gearboxes
- Manual steer and power steer versions
- Optimized gear design for efficiency and noise
- Integrated low-voltage electric motor
- Integrated parking brake
- Complete system with tyres

TORQUE (Nm)



MAX WHEEL LOAD (kg)

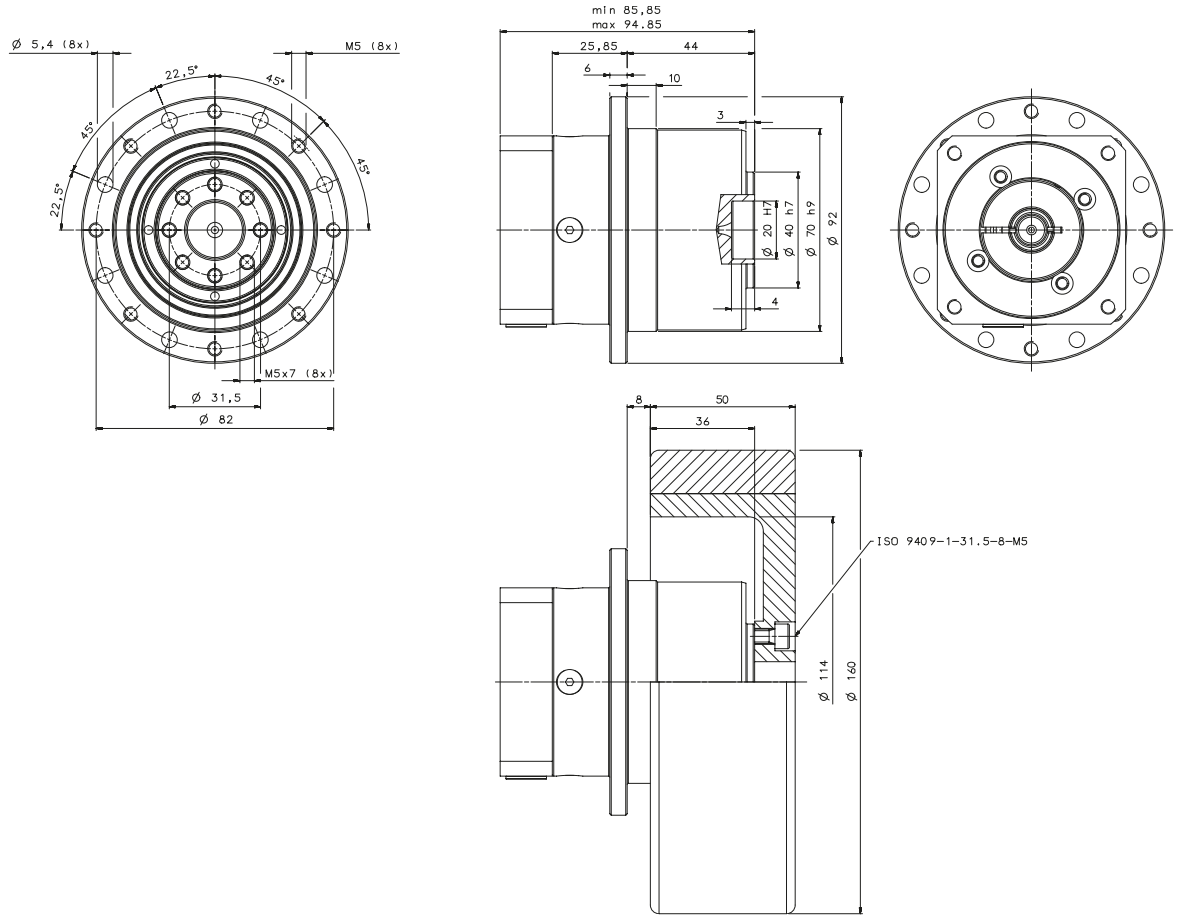


MATERIAL HANDLING VEHICLES

REACH TRUCKS

TOW TRACTORS

TQW 060

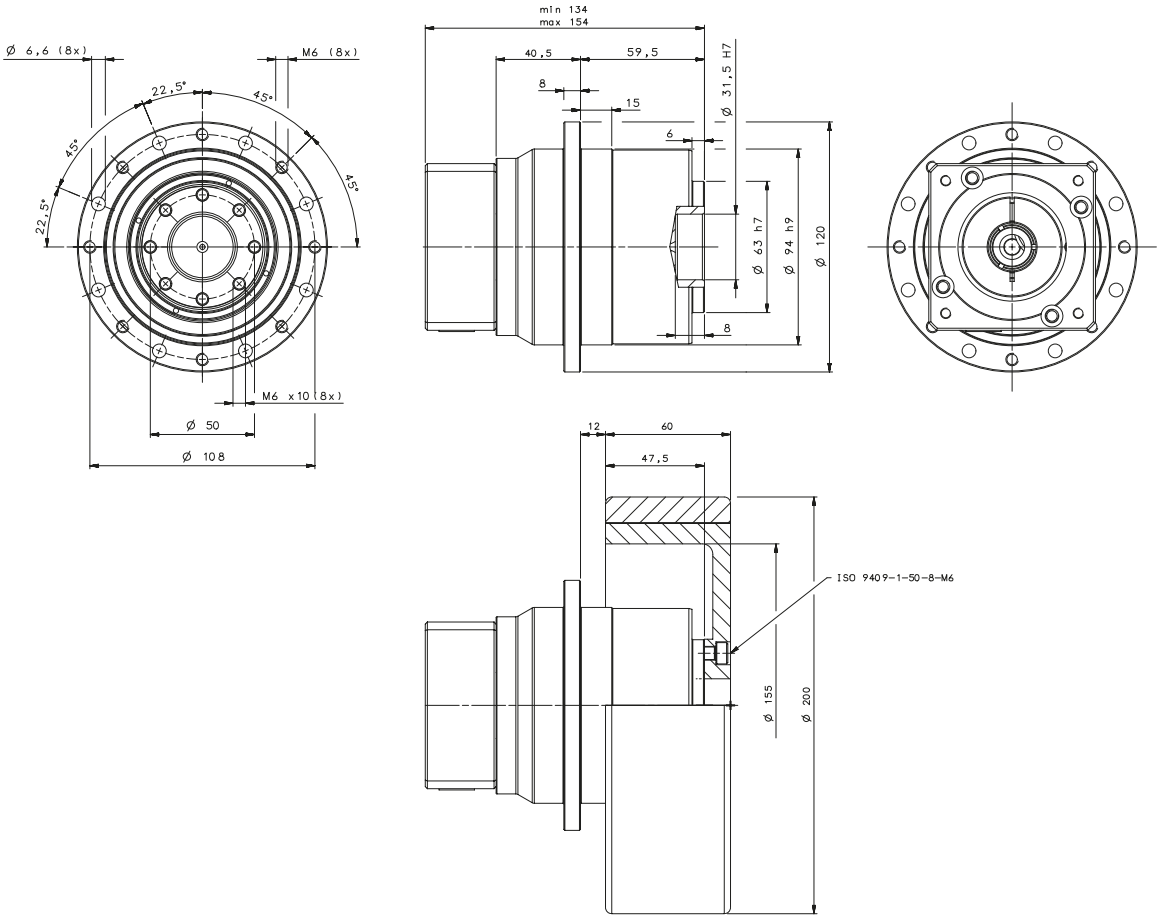


TQW 060			Ratio												
			9	12	15	16	20	25	28	30	35	40	50	70	100
Rated output torque	M_{n2}	[Nm]	29	29	29	30	30	30	30	29	30	30	30	30	18
Maximum acceleration output torque	M_{a2}	[Nm]	55	55	55	45	45	45	45	55	45	45	45	45	30
Emergency stop output torque [1]	M_{p2}	[Nm]	60	70	70	70	70	70	70	70	70	70	70	70	70
Nominal input speed	n_1	[min^{-1}]	3300	3300	3300	3500	3500	3500	3700	4000	4000	4000	4000	4000	4000
Maximum momentary input speed [2]	n_{1max}	[min^{-1}]	4000	4000	4000	5000	5000	5000	6000	6000	6000	6000	6000	6000	6000
Backlash	φ_R	[arcmin]	10												
Torsional stifness	C_t	[Nm/ arcmin]	6												
Maximum radial force [3]	R_{2max}	[N]	2300												
Maximum tilting moment applied to the output shaft [3]	M_{T2max}	[Nm]	108												
Mass moment of inertia at motor shaft	J_g	[kgcm^2]	0,06 ... 0,21												
Gearbox weight	m_g	[kg]	1,7												

Wheel tecnical data		
Weight	[kg]	2,5
Mass inertia	[kgcm^2]	82,8
Roll resistance [4]	[%]	1
Minimum Friction coefficient [5]	[-]	0,75
Temperature range	[C°]	+30 / -5
Tread		Dynaroll
Tread colour		Black
Tread Hardness		95° Shore A
Rim material		S235JR
Colour		Black
Corrosion protection		Standard Painting

[1] Permitted 1000 times during service life of the gearbox.
[2] The speed the unit can be driven at occasionally and in non-repetitive conditions. For S5 duty cycle, it cannot be applied continuously for more than 30 seconds.
[3] Calculated at lifetime of 20000 h - output shaft speed of 100 rpm.
[4] Roll resistance expressed in terms of additional mass percentage to the load applied and at 7,2 km/h.
[5] Static friction coefficient on concrete.

TQW 070

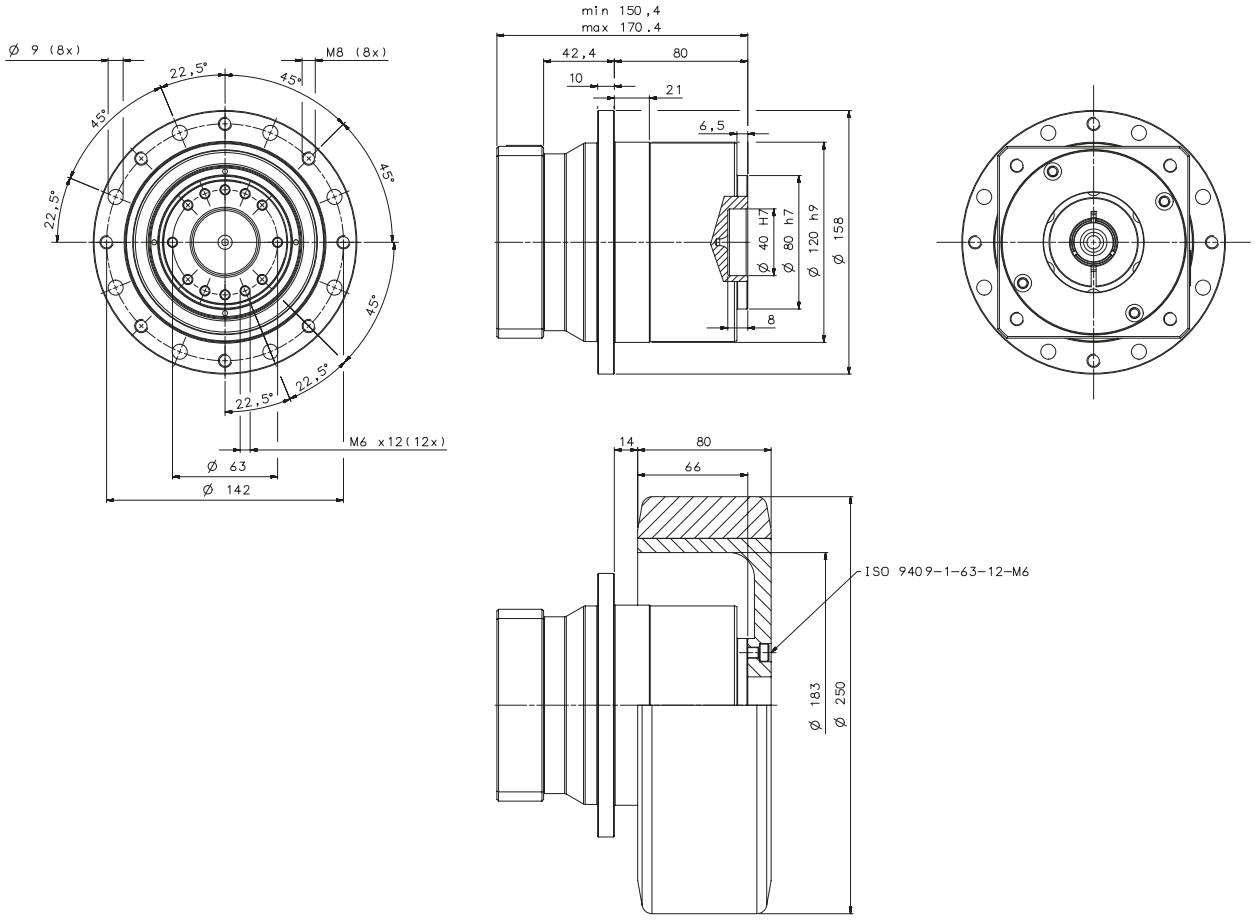


TQW 070			Ratio												
			9	12	15	16	20	25	28	30	35	40	50	70	100
Rated output torque	M_{n2}	[Nm]	65	65	65	60	60	50	50	65	50	60	50	50	40
Maximum acceleration output torque	M_{a2}	[Nm]	120	120	120	110	110	100	100	120	100	110	100	100	70
Emergency stop output torque [1]	M_{p2}	[Nm]	150	160	160	160	160	160	160	150	160	160	160	160	150
Nominal input speed	n_1	[min^{-1}]	3500	3500	3500	3500	3500	3200	4000	4000	4000	4000	4000	4000	4000
Maximum momentary input speed [2]	n_{1max}	[min^{-1}]	3500	3500	3500	4500	4500	4500	6000	6000	6000	6000	6000	6000	6000
Backlash	φ_R	[arcmin]	10												
Torsional stifness	C_t	[Nm/ arcmin]	23												
Maximum radial force [3]	R_{2max}	[N]	4100												
Maximum tilting moment applied to the output shaft [3]	M_{T2max}	[Nm]	281												
Mass moment of inertia at motor shaft	J_g	[kgcm^2]	0,36 ... 0,81												
Gearbox weight	m_g	[kg]	5,5												

Wheel tecnical data		
Weight	[kg]	4,3
Mass inertia	[kgcm^2]	258,9
Roll resistance [4]	[%]	1
Minimum Friction coefficient [5]	[-]	0,75
Temperature range	[C°]	+30 / -5
Tread		Dynaroll
Tread colour		Black
Tread Hardness		95° Shore A
Rim material		S235JR
Colour		Black
Corrosion protection		Standard Painting

[1] Permitted 1000 times during service life of the gearbox.
[2] The speed the unit can be driven at occasionally and in non-repetitive conditions. For S5 duty cycle, it cannot be applied continuously for more than 30 seconds.
[3] Calculated at lifetime of 20000 h - output shaft speed of 100 rpm.
[4] Roll resistance expressed in terms of additional mass percentage to the load applied and at 7,2 km/h.
[5] Static friction coefficient on concrete.

TQW 090



TQW 090			Ratio												
			9	12	15	16	20	25	28	30	35	40	50	70	100
Rated output torque	M_{n2}	[Nm]	155	155	155	155	155	125	125	155	125	135	125	125	100
Maximum acceleration output torque	M_{a2}	[Nm]	280	300	300	300	300	240	240	300	240	300	240	240	160
Emergency stop output torque [1]	M_{p2}	[Nm]	300	360	360	360	360	360	360	360	360	360	360	360	300
Nominal input speed	n_1	[min⁻¹]	3000	3000	3000	3000	3000	3000	3500	3500	3500	3500	3500	3500	3500
Maximum momentary input speed [2]	n_{1max}	[min⁻¹]	4000	4000	4000	4500	4500	4500	5000	5000	5000	5000	5000	5000	5000
Backlash	φ_R	[arcmin]	10												
Torsional stifness	C_t	[Nm/ arcmin]	50												
Maximum radial force [3]	R_{2max}	[N]	5200												
Maximum tilting moment applied to the output shaft [3]	M_{T2max}	[Nm]	403												
Mass moment of inertia at motor shaft	J_g	[kgcm²]	0,47 ... 3,05												
Gearbox weight	m_g	[kg]	10,9												

Wheel tecnical data		
Weight	[kg]	7,2
Mass inertia	[kgcm²]	619,1
Roll resistance [4]	[%]	1
Minimum Friction coefficient [5]	[-]	0,75
Temperature range	[C°]	+30 / -5
Tread		Dynaroll
Tread colour		Black
Tread Hardness		95° Shore A
Rim material		S235JR
Colour		Black
Corrosion protection		Standard Painting

[1] Permitted 1000 times during service life of the gearbox.
[2] The speed the unit can be driven at occasionally and in non-repetitive conditions. For S5 duty cycle, it cannot be applied continuously for more than 30 seconds.
[3] Calculated at lifetime of 20000 h - output shaft speed of 100 rpm.
[4] Roll resistance expressed in terms of additional mass percentage to the load applied and at 7,2 km/h.
[5] Static friction coefficient on concrete.

PERMANENT MAGNET SERVOMOTORS

			BMD 65											BMD 82			BMD 102		BMD 118
Standstill torque		M_0 [Nm]	0,85				1,70				2,20			3,20		4,40	4,00		5,60
Rated torque		M_n [Nm]	0,83	0,80	0,76	0,73	1,65	1,60	1,52	1,45	2,12	2,05	1,95	3,15	3,00	4,20	3,70	3,40	5,50
Rated speed		n [min^{-1}]	1600	3000	4500	6000	1600	3000	4500	6000	1600	3000	4500	1600	3000	1600	1600	3000	1600
Rated frequency		f_n [Hz]	107	200	300	400	107	200	300	400	107	200	300	107	200	107	107	200	107
Rated power		P_n [kW]	0,14	0,25	0,36	0,46	0,28	0,50	0,72	0,91	0,36	0,64	0,92	0,53	0,94	0,70	0,62	1,01	0,92
Max torque		M_{max} [Nm]	2,55				4,90				6,20			8,50		11,5	11,0		15,0
Number of poles		**2p** [-]	8				8				8			8		8	8		8
Motor moment of inertia		J [kg cm^2]	0,2				0,4				0,6			1,4		1,7	1,9		4,5
Electric time constant		τ_{el} [ms]	3				3				3			5,7		5,7	8,4		13
Thermal time constant		τ_{therm} [min]	14				20				26			26		33	25		28
Motor mass without bake/ flywheel		m_M [kg]	1,3				1,9				2,6			3,5		4,6	4,2		7,7
Rated voltage	48 Vdc	V_n [V_{AC}]	31	30	32	32	31	30	31	31	31	31	31	31	32	30	31	32	31
Stall RMS current	48 Vdc	I_0 [A]	4,04	6,85	9,20	12,0	7,8	13,0	18,0	23,5	10,3	16,6	24,1	15,9	24,8	22,5	19,1	30,0	24,0
Rated RMS current	48 Vdc	I_n [A]	3,89	6,46	8,30	10,5	7,75	12,8	17,0	21,0	9,98	15,6	21,2	15,0	23,7	21,1	16,4	26,6	21,7
Max RMS current	48 Vdc	I_{max} [A]	13,1	21,7	29,6	38,5	26,7	44,4	61,0	79,5	32,7	52,8	76,0	52,7	85,3	66,8	58,5	96,3	78,7
Back EMF constant phase-phase	48 Vdc	K_e $\left[\frac{mV}{min^{-1}}\right]$	14,3	8,44	6,29	4,80	14,4	8,64	6,22	4,80	14,9	9,26	6,45	14,5	8,91	13,7	14,9	9,13	16,1
Torque constant	48 Vdc	K_T [Nm/A]	0,21	0,12	0,09	0,07	0,22	0,13	0,09	0,07	0,21	0,13	0,09	0,20	0,13	0,20	0,21	0,13	0,23
Stator phase-phase resistance at 20°C	48 Vdc	R_{pp} [$\Omega_{20°}$]	1,76	0,62	0,34	0,20	0,79	0,28	0,15	0,09	0,51	0,20	0,09	0,28	0,11	0,15	0,21	0,08	0,12
Stator phase-phase inductance	48 Vdc	L_{pp} [mH]	5,26	1,85	1,02	0,60	2,39	0,86	0,45	0,26	1,56	0,60	0,29	1,59	0,60	0,84	1,78	0,67	1,60

OUR GLOBAL PRESENCE

Thanks to an international network of closely interconnected commercial and production sites, we can guarantee the same high standards of Bonfiglioli quality anywhere at any given time. We know that our direct presence in local markets is the key to long-lasting success, so our family includes 18 production sites, 23 commercial sites and more than 550 distributors around the world.

Our organization is always close by, offering complete and efficient solutions and supporting our customers with dedicated services, co-engineering and after-sales assistance.

18
PRODUCTION SITES

23
COMMERCIAL SITES

80
COUNTRIES

550
DISTRIBUTORS

~4,700
PEOPLE

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PRODUCTION ASSEMBLY SALES SERVICE

Bonfiglioli

We have a relentless commitment to excellence, innovation & sustainability. Our team creates, distributes and services world-class power transmission & drive solutions to keep the world in motion.

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